LYZ ansatz on tropical manifolds.

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Leung, Yau and Zaslow introduced the notion of deformed Hermitian Yang-Mills connections (dHYM) for connections on a complex line bundle over a Kahler manifold with a Hermitian metric, and they proved that it is naturally appeared as mirror objects of special Lagrangian submanifolds (sLag) via Fourier-Mukai transform between dual torus fibrations. In their paper, two assumptions are put for simplicity. The one is for ambients and the another is for submanifolds. For ambients, in summary, they assume that the base of torus fibrations is an open subset in a Euclidean space. For submanifolds, they assume that the Lagrangian submanifold is written as a graph of a section of the torus fibration. In this talk, I glue their local argument on a tropical manifold, and give appropriate data which cause the correspondence between dHYM and sLag.